

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-15. (canceled)

16. (currently amended) ~~The system of claim 48.~~ A method of operation of a mobile node within a communication system supporting mobile Internet Protocol (IP), wherein the mobile node is operable to connect to a network infrastructure via one or more mobile gateway routers, the method comprising:

determining that the mobile node is attached to a mobile gateway router associated with a mobile network, wherein the mobile gateway router operates outside of ~~[[a]]~~ the home ~~mobile~~ network of the mobile node;

creating a new binding list entry identifying at least one correspondent node that has received a binding update corresponding to the mobile node while the mobile node is operating within its home mobile network;

sending a binding update to the one or more correspondent nodes of the binding list entry created in the home network identifying its attachment to the foreign network upon leaving the home network.

Claims 17-18. (canceled)

19. (currently amended) The ~~method-system~~ of claim ~~48~~ ~~[[16]]~~, wherein the mobile node comprises a mobile router.

20. (currently amended) The ~~method-system~~ of claim ~~48~~ ~~[[16]]~~, wherein the mobile node comprises a mobile network node detached from a mobile network.

Claims 21-23. (canceled)

24. (currently amended) The ~~method-system~~ of claim 38 wherein the care of address comprises at least one of a home address of a) the mobile gateway router and b) the mobile node.

25. (currently amended) The ~~method-system~~ of claim 38 wherein the care of address comprises an address in a home subnet of the mobile node.

26. (currently amended) The ~~method-system~~ of claim 48[[16]] wherein the mobile node comprises an IP-addressable device.

27. (canceled)

28. (currently amended) The ~~method-system~~ of claim 48[[16]] wherein the binding update is generated in response to a tunneled packet from at least one of a) the one or more correspondent nodes, b) the mobile gateway router, and c) a home agent of the mobile node.

29. (currently amended) The ~~method-system~~ of claim 48[[16]] further comprising wherein the mobile node is further operable to identify[[ing]] that a packet was received from the one or more correspondent nodes without traversing a home agent.

30. (currently amended) The ~~method-system~~ of claim 48[[16]], further comprising:
----- detaching from the mobile gateway router;
----- attaching to wherein the new point of attachment comprises a gateway router in a fixed site in the communication system network infrastructure; and
----- sending a binding update to the one or more correspondent nodes that are in the binding list of the mobile node to inform the one or more correspondent nodes of the mobile node's attachment to the fixed site.

31. (canceled)

32. (currently amended) The ~~method-system~~ of claim 48 [[31]] wherein the binding update comprises a care of address in a subnet that the mobile node is currently attached to of the new point of attachment.

33. (currently amended) The ~~method-system~~ of claim 48 [[31]] wherein the binding update comprises a care of address of a home address of the mobile gateway router to which the mobile is attached of the new point of attachment.

34. (currently amended) The ~~method-system~~ of claim 48 [[16]], further comprising wherein the mobile node is further operable to:

detach[[ing]] from the mobile gateway router;

attach[[ing]] to a second mobile gateway router in a second mobile network ~~in the communication system~~; and

send[[ing]] a binding update to the one or more correspondent nodes that are in the binding list of the mobile node to inform the one or more correspondent nodes of the mobile node's attachment to ~~wherein the new point of attachment comprises~~ the second mobile network.

Claims 35-37. (canceled)

38. (currently amended) The ~~method-system~~ of claim 48 [[16]] further comprising wherein when the mobile node has moved away from the home network, the mobile node is further operable to:

obtain[[ing]] a care of address comprising the home address of the mobile gateway router; and

send[[ing]] the care-of address to a home agent of the mobile node.

Claims 39 - 47(canceled)

48. (currently amended) A system including a mobile node operable to connect to a network infrastructure via a mobile gateway router, the system comprising:

a home mobile gateway router of a mobile node operable to send a binding update with Internet Protocol (IP) address information including that of the mobile node to a correspondent node; and

the mobile node, while in its home network, operable to determine that it is in its home mobile network and to create a new binding list entry with information about the correspondent node, and further operable to send a binding update to the correspondent node with information about its new point of attachment upon leaving its home mobile network.